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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10 082,083	02 26 2002	Toshiki Taru	50212-351	8602
20277 7	590 12 11 2002			
MCDERMOTT WILL & EMERY			EXAMINER	
600 13TH STR WASHINGTO	N. DC 20005-3096		DOAN, JENNIFER	
			ART UNII	PAPER NUMBER
			2874	

DATE MAILED: 12/11/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

1-		Application No.	Applicant(s)	
,	CC: A	10/082,083	TARU ET AL,	
Of	ffice Action Summary	Examiner	Art Unit	
		Jennifer Doan	2874	
The Period for Rep	MAILING DATE of this communication app	ears on the cover sheet with the c	orrespondence address	
A SHORTEI THE MAILIN - Extensions of after SI.(6) M - If the period for if NO period for Failure to reply Any reply receivement patent to	NED STATUTORY PERIOD FOR REPLY NG DATE OF THIS COMMUNICATION. time may be available under the provisions of 37 CFR 1.13 MONTHS from the mailing date of this communication. or reply specified above is less than thirty (30) days, a reply or reply is specified above, the maximum statutory period will you within the set or extended period for reply will, by statute, lived by the Office later than three months after the mailing term adjustment. See 37 CFR 1.704(b)	6(a). In no event, however, may a reply be tim within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from its	nely filed s will be considered timely. the mailing date of this communication	
Status				
1)☐ Resp	onsive to communication(s) filed on	_ ·		
2a)☐ This a	action is FINAL . 2b)⊠ This	s action is non-final.		
3) Since close Disposition of (e this application is in condition for alloward in accordance with the practice under EClaims	nce except for formal matters, pro Ex parte Quayle, 1935 C.D. 11, 49	osecution as to the merits is 53 O.G. 213.	
4)⊡ Claim((s) <u>1-5</u> is/are pending in the application.			
4a) Of	the above claim(s) is/are withdraw	n from consideration.		
	(s) is/arc allowed.			
6)⊡ Claim((s) <u>1-5</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(Application Pap	s) are subject to restriction and/or pers	election requirement.		
9)∏ The sp∈	ecification is objected to by the Examiner.			
10)⊡ The dra	wing(s) filed on <u>26 February 2002</u> is/are:	a)⊠ accepted or b) objected to b	by the Examiner.	
	cant may not request that any objection to the			
		s: a)☐ approved b)☐ disapprov		
	roved, corrected drawings are required in reply			
	h or declaration is objected to by the Exar	miner.		
Priority under 3	5 U.S.C. §§ 119 and 120			
13) 🖸 Acknov	wledgment is made of a claim for foreign p	priority under 35 U.S.C. § 119(a)-	-(d) or (f).	
a)⊠ All t	o) Some * c) None of:			
1.⊠ (Certified copies of the priority documents I	have been received.		
2. 🗌 (Certified copies of the priority documents I	nave been received in Application	n No	
	Copies of the certified copies of the priority application from the International Bure attached detailed Office action for a list of	au (PCT Rule 17 2(a))		
	edgment is made of a claim for domestic			
a) 🔲 The	e translation of the foreign language provi- edgment is made of a claim for domestic	sional application has been recei	ived.	
Attachment(s)				
2) 🔲 Notice of Drafts	rences Cited (PTO-892) sperson's Patent Drawing Review (PTO-948) closure Statement(s) (PTO-1449) Paper No(s) <u>3</u> .	4) Interview Summary (I 5) Notice of Informal Pa 6) Other:	PTO-413) Paper No(s) tent Application (PTO-152)	
S. Patent and Trademark Offic FO-326 (Rev. 04-01)	Ce Office Action	n Summary	Part of Paper No. 5	

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DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Drawings

2. The drawings, filed on 02/26/2002, are accepted.

Specification

3. Applicants' cooperation is requested in correcting any errors of which applicants may become aware in the specification.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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- 5. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 6. Claims 1-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dong et al. (U.S. Patent 6,009,222).

Dong et al. disclose (Figs. 1a and 1b) an optical fiber (10) comprising a core region (20) having a first refractive index with a UV photosensitivity (column 4, lines 31-44); an inner cladding region (30) surrounding the core region (20) and having a second refractive index lower than the first refractive index with a UV photosensitivity (column 4, lines 33-65) and an outer cladding region (40) surrounding the inner cladding region (30) and having a third refractive index lower than the first refractive index (column 4, lines 36-41); wherein the average value of UV photosensitivity in the core region is different from that of the inner cladding region (column 6. lines 40-48 and column 10, lines 13-20) and further wherein the optical fiber having a refractive index modulation formed in a predetermined area along a longitudinal direction of that as shown in Figs. 1a, 1b and 2.

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Dong et al. disclose all the limitations of the claimed invention except for the deviation of UV photosensitivity over of the core region and the inner cladding region ±10% or less as recited in claims 1-3. However, it would have been obvious to one having ordinary skill in the art at the time the invention was made to employ the deviation of UV photosensitivity over of the core region and the inner cladding region ±10% or less, since it has been held that discovering an optimum value of a result effective variable involves only routine skill in the art. *In re Boesch*, 617 F.2d 272, 205 *USPQ 215 (CCPA 1980)*.

Dong et al. disclose all the limitations of the claimed invention except for the deviation of UV photosensitivity over of the core region and the inner cladding region $\pm 5\%$ or less as recited in claim 4. However, it would have been obvious to one having ordinary skill in the art at the time the invention was made to employ the deviation of UV photosensitivity over of the core region and the inner cladding region $\pm 5\%$ or less, since it has been held that discovering an optimum value of a result effective variable involves only routine skill in the art. *In re Boesch*, 617 F.2d 272, 205 USPQ 215 (CCPA 1980).

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Dong et al. (U.S. Patent 5,881,197) disclose an optical fiber and Paek et al. (U.S. Patent 6,307,994) disclose long-period fiber gratings.

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8. The prior art documents submitted by applicant in the Information Disclosure Statement filed on 02/26/2002, have all been considered and made of record. (Note the attached copies of form PTO-1449).

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9. Any inquiry concerning the merits of this communication should be directed to Examiner Jennifer Doan whose telephone number is (703) 308-6179. The examiner can normally be reached on Monday to Thursday from 6:30am to 4:00pm, first Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rodney Bovernick, can be reached on (703) 308-4819. The fax phone number for the organization where this application or proceeding is assigned is (703) 308-7724.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

JD

December 9, 2002

JD